

## CLAIMS:

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1. A low-pressure gas discharge lamp equipped with a gas discharge vessel containing, as a buffer gas, an inert gas filling and an indium halogenide, thallium halogenide, gallium halogenide and/or copper halogenides, and with electrodes and means for generating and maintaining a low-pressure gas discharge, characterized in that said low-  
10 pressure gas discharge lamp comprises one or more chalcogenides of alkaline earth metals as electron emitter material.

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2. A low-pressure gas discharge lamp as claimed in claim 1, characterized in that the chalcogenide is selected from the group formed by sulphides, selenides and/or tellurides.

3. A low-pressure gas discharge lamp as claimed in claim 1 and 2, characterized in that it contains, as a buffer gas, an inert gas selected from the group formed by helium, neon, argon, krypton and xenon.

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4. A low-pressure gas discharge lamp as claimed in claims 1 to 3, characterized in that the gas discharge vessel comprises a luminophor coating applied to the inside and/or the outside.

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5. The use of one or more chalcogenides of alkaline earth metals as electron emitter material for coating electrodes in discharge lamps.